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EXAMINER

WITZENBURG, BRUCE A

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/593,452	<b>Applicant(s)</b> SATO ET AL.	
	<b>Examiner</b> BRUCE A. WITZENBURG	<b>Art Unit</b> 2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 19 September 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 25-47 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 25-47 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 September 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>09/19/2006</u> .  | 6) <input type="checkbox"/> Other: _____                          |

**DETAILED ACTION**

1. Claims 25-47 are pending in the instant application.

***Claim Objections***

2. The following are objected to for lack of antecedent basis:
  - a. “the editing” (Claim 46, line 9)
  - b. “the mobile audio information” (Claim 46, line 12)

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moriconi et al (US 5,262,759) hereafter Moriconi

Regarding claim 25, Moriconi discloses a portable information processor that is attachable and detachable to a first device and a second device, and that is portable being detached from the first device and the second device, comprising:  
a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

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a connecting unit configured to connect the portable information processor to either one of the first device and the second device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the first device and the second device; (Col 3, lines 57-60; Col 4, lines 51-68)

a generating unit configured to be supplied with a driving power from a power source of the first device and the second device, and to generate operation information indicative of an operation executed by the first device and the second device, based on device identification information and other information that are acquired by the information acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit configured to control one of the first device and the second device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) wherein

when the portable information processor is connected to the first device, the acquiring unit acquires first identification information that is the device identification information of the first device, and first acquired information that is the other information acquired from the first device, (Col 2, lines 14-24) and

the storage unit stores the first acquired information, (Col 2, lines 14-24 Note that memory accessing EEPROM implies at least temporary storage and it would have been at least obvious to store such information longer in order to easily determine display

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specific functions and drivers if it is not already inherent within the embodiment of Moriconi)

when the portable information processor is connected to the second device, the acquiring unit acquires second identification information that is the device identification information of the second device and second acquired information that is the other information acquired from the second device, (Col 2, lines 14-24)

the generating unit generates second operation information that is the operation information of the second device executable by the second device, based on the second identification information, the second acquired information, and the first acquired information stored in the storage unit, (Col 2, lines 14-24 Note that because the implementation of Moriconi is that of a general computing device any type of information could potentially be acquired under the separate operating locations and it would have been obvious to one of ordinary skill in the art at the time of the invention to use information pertinent to the operation being executed even if it was acquired at a different location or under different conditions) and

the control unit controls the second device based on the second operation information. (Col 2, lines 14-24 Note that something such as the display driver mentioned would operate a video output based on the operation information)

Regarding claim 26, Moriconi discloses a portable information processor that is attachable and detachable to a first device and a second device, and that is portable being detached from the first device and the second device, comprising:

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a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

a connecting unit configured to connect the portable information processor to either one of the first device and the second device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the first device and the second device; (Col 3, lines 57-60; Col 4, lines 51-68)

a generating unit configured to be supplied with a driving power from a power source of the first device and the second device, and to generate operation information indicative of an operation executed by the first device and the second device, based on device identification information and other information that are acquired by the information acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit configured to control one of the first device and the second device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) wherein

when the portable information processor is connected to the first device, the acquiring unit acquires first identification information that is the device identification information of the first device, and first acquired information that is the other information acquired from the second device, (Col 2, lines 14-24)

the generating unit generates first operation information that is the operation information of the first device, based on the first identification information, the first acquired information, and the information stored in the storage unit, (Col 2, lines 14-24 Note that

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because the implementation of Moriconi is that of a general computing device any type of information could potentially be acquired under the separate operating locations and it would have been obvious to one of ordinary skill in the art at the time of the invention to use information pertinent to the operation being executed including any in a storage area which is standard in the practice of computer instruction execution) and the storage unit stores the first operation information, (Col 2, lines 14-24 Note that memory accessing EEPROM implies at least temporary storage and it would have been at least obvious to store such information longer in order to easily determine display specific functions and drivers if it is not already inherent within the embodiment of Moriconi) and

when the portable information processor is connected to the second device, the acquiring unit acquires second identification information that is the device identification information of the second device, and second acquired information that is the other information acquired from the second device, (Col 2, lines 14-24)

the generating unit generates second operation information that is the operation information of the second device, based on the second identification information, the second acquired information, and on the first operation information stored in the storage unit, (Col 2, lines 14-24 Note that because the implementation of Moriconi is that of a general computing device any type of information could potentially be acquired under the separate operating locations and it would have been obvious to one of ordinary skill in the art at the time of the invention to use information pertinent to the operation being

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executed even if it was acquired at a different location or under different conditions) and

the control unit controls the second device based on the second operation information.

(Col 2, lines 14-24 Note that something such as the display driver mentioned would operate a video output based on the operation information)

4. Claims 27- 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moriconi et al (US 5,262,759) hereafter Moriconi in view of

Regarding claim 27, Moriconi discloses a portable information processor that is attachable and detachable to a plurality of devices including a mobile device installed in a mobile unit and an indoor device installed indoors, and that is portable being detached from the devices, comprising:

a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

a connecting unit configured to connect the portable information processor to either one of the mobile device and the indoor device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the mobile device and the indoor device; (Col 3, lines 57-60; Col 4, lines 51-68)

a generating unit configured to be supplied with a driving power from a power source of the mobile device and the indoor device, and to generate operation information

indicative of an operation executed by the mobile device and the indoor device, based



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on device identification information and other information that are acquired by the information acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit that controls one the mobile device and the indoor device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) wherein the mobile device includes a display unit, (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

the indoor device includes an input unit through which command information is input by a user; (Fig 1; Col 2, line 50-60 Note input devices such as that of the keyboard displayed are very much standard in the art at the time of the invention) and a communication unit configured to communicate information with an information source, (Col 5, lines 45-49 Note this is an external source which necessitates a communication unit. Additionally, while Moriconi does not specifically disclose a communication device, devices such as network cards and modems are both standard and well known at the time of the invention and it would have been obvious for one of ordinary skill in the art at the time of the invention to use a network card or modem in order to obtain information from an inter- or intra- net location for updates or improved operational information)

when the portable information processor is connected to the mobile device, the acquiring unit acquires the device identification information of the mobile device, (Col 2, lines 14-24)

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While this does not encompass all claimed limitations, the disclosure of Kohli discloses the following:

the mobile device includes a position detecting unit configured to detect a position of the mobile unit; (Abs, All figures, Col 1 – End; Note the embodiment of Kohli pertains nearly specifically to position detection) and

the storage unit stores at least map information, (Col 4, lines 10-23; Col 5, lines 45-49)

when the portable information processor is connected to the mobile device, the

acquiring unit acquires position information on a position of the mobile unit detected by the position detecting unit, (Abs, All figures, Col 1 – End; Note the embodiment of Kohli pertains nearly specifically to position detection)

the generating unit generates navigation information for the mobile unit based on the map information, (Col 6, lines 19-44

the device identification information of the mobile device, (as shown above) and the position information, (Col 6, lines 19-44) and

the control unit causes the display unit to display a navigation screen for the mobile unit based on the navigation information, (Col 7, lines 8-17)

when connected to the indoor device, the acquiring unit acquires the device

identification of the indoor device (as shown above) and the command information, (Col 6, lines 19-44)

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the generating unit generates request information for requesting predetermined information on navigation for the mobile device, based on the device identification information of the indoor device (as shown above) and the command information, (Col 6, lines 19-44) and the control unit causes the communication unit to acquire the predetermined information from the information source based on the request information. (Col 6, lines 19-44) While the implementation of Kohli does not provide specific indoor and outdoor displays, as shown above and additionally within the disclosure of Moriconi, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide specific displays better catered to the conditions they will be viewed under in addition to providing better and more numerous input methods for route planning.

Regarding claim 28, Moriconi does not specifically disclose the claimed limitations, however Kohli discloses the portable information processor being connected to the indoor device,

the acquiring unit acquires the predetermined information, (Col 6, lines 19-44) and the storage unit updates the information stored therein based on the predetermined information. (Col 6, lines 19-44)

Regarding claim 29 Moriconi discloses the indoor device further including a display unit, (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66) however it does not specifically disclose all of the claimed limitations.

Kohli discloses when the portable information processor is connected to the indoor device, the generating unit generates presentation information to present a content of the information stored in the storage unit, (Col 6, lines 19-44; Col 7, lines 8-17) and the control unit causes the display unit of the indoor device to display a screen based on the presentation information. (Col 7, lines 8-17)

Regarding claim 30, Moriconi does not specifically disclose the claimed limitations, however Kohli discloses when the portable information processor is connected to the indoor device, the acquiring unit acquires map renewal command from the input unit, the generating unit generates the request information to request map renewal information based on the map renewal command, (Col 6, lines 19-44; Col 7, lines 8-17 Note position is updated as trip is navigated) and the control unit causes the communication unit to acquire the map renewal information from the information source based on the request information. (Col 6, lines 19-44; Col 7, lines 8-17)

Regarding claim 31. the Moriconi does not specifically disclose the claimed limitations, however Kohli discloses when the portable information processor is connected to the indoor device, the acquiring unit acquires the map renewal information, and the storage unit renews the map information based on the map renewal information, (Col 5, lines 45-49; Col 6, lines 19-44; Col 7, lines 8-17 Additionally this could also be viewed as a

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stored map information update which is typical in the art and would have been obvious to one of ordinary skill in the art to use in order to keep map data relevant after road construction and the like) and

when the portable information processor is connected to the mobile device, the generating unit generates the navigation information based on the map information renewed. (Col 6, lines 19-44; Col 7, lines 8-17)

Regarding claim 32. Moriconi does not specifically disclose the claimed limitations, however Kohli discloses when the portable information processor is connected to the indoor device, the acquiring unit acquires route setting command from the input unit, (Col 6, lines 19-44; Col 7, lines 8-17)

the generating unit generates request information to request route information for route setting based on the route setting command, (Col 6, lines 19-44; Col 7, lines 8-17) and the control unit causes the communication unit to acquire the route information based on the request information. (Col 5, lines 45-49; Col 6, lines 19-44; Col 7, lines 8-17)

Regarding claim 33, Moriconi does not specifically disclose the claimed limitations, however Kohli discloses wherein

when the portable information processor is connected to the indoor device, the acquiring unit acquires the route information, (Col 6, lines 19-44; Col 7, lines 8-17)

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the generating unit generates route guidance information to enable the mobile device to perform route guiding to a destination based on the route information and the map information, (Col 6, lines 19-44; Col 7, lines 8-17) and

the storage unit stores the route guidance information, (Col 6, lines 19-44; Col 7, lines 8-17) and

when the portable information processor is connected to the mobile device, the generating unit generates the navigation information based on the route guidance information. (Col 6, lines 19-44; Col 7, lines 8-17)

Regarding claim 34 Moriconi discloses the indoor device further including a display unit, (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66) however it does not specifically disclose all of the claimed limitations.

Kohli discloses when connected to the indoor device, the operation information generating unit generates presentation information that presents a content of the information stored in the storage unit, (Col 6, lines 19-44; Col 7, lines 8-17) and the control unit causes the indoor display unit to display an information presentation screen based on the presentation information. (Col 6, lines 19-44; Col 7, lines 8-17)

Regarding claim 35, Moriconi discloses a portable information processor that is attachable and detachable to a plurality of devices including a portable device portably

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carried by a user and an indoor device installed indoors, and that is portable being detached from the portable device and the indoor device, comprising:

a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

a connecting unit configured to connect the portable information processor to either one of the portable device and the indoor device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the portable device and the indoor device; (Col 3, lines 57-60; Col 4, lines 51-68)

a generating unit configured to be supplied with a driving power from a power source of the portable device and the indoor device, and to generate operation information indicative of an operation executed by the portable device and the indoor device, based on device identification information and other information that are acquired by the acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit configured to control one of the portable device and the indoor device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68)

wherein the portable device includes a display unit, (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

While this does not encompass all claimed limitations, the disclosure of Kohli discloses the following:

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wherein the portable device includes a position detecting unit configured to detect a position of the portable device; (Abs, All figures, Col 1 – End; Note the embodiment of Kohli pertains nearly specifically to position detection) and the indoor device includes an input unit through which command information is input by the user; (Col 6, lines 19-44) and a communication unit configured to communicate information with an information source, (Col 5, lines 45-49 Note this is an external source which necessitates a communication unit. Additionally, while Moriconi does not specifically disclose a communication device, devices such as network cards and modems are both standard and well known at the time of the invention and it would have been obvious for one of ordinary skill in the art at the time of the invention to use a network card or modem in order to obtain information from an inter- or intra- net location for updates or improved operational information) the storage unit stores at least map information, (Col 4, lines 10-23; Col 5, lines 45-49) when the portable information processor is connected to the portable device, the acquiring unit acquires the device identification information of the portable device (as above) and position information on a position of the portable device detected by the position detecting unit, (Abs, All figures, Col 1 – End; Note the embodiment of Kohli pertains nearly specifically to position detection) the generating unit generates navigation information for the portable device based on the map information, (Col 6, lines 19-44) the device identification information of the portable device, (as shown above) and the position information, (Col 6, lines 19-44) and



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the control unit causes the display unit to display a navigation screen of the portable device based on the navigation information, (Col 7, lines 8-17)

when the portable information processor is connected to the indoor device, the acquiring unit acquires device identification information of the indoor device from the indoor device (as above) and the command information from the input unit, (Col 6, lines 19-44)

the generating unit generates request information to request predetermined information on navigation information for the portable device based on the device identification information of the indoor device (as shown above) and the command information, (Col 6, lines 19-44) and

the control unit causes the communication unit to acquire the predetermined information from the information source based on the request information. (Col 6, lines 19-44) While the implementation of Kohli does not provide specific indoor and outdoor displays, as shown above and additionally within the disclosure of Moriconi, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide specific displays better catered to the conditions they will be viewed under in addition to providing better and more numerous input methods for route planning.

Regarding claim 36, Moriconi discloses a portable information processor that is attachable and detachable to a plurality of devices including a mobile device installed in a mobile unit and a portable device portably carried by a user, and that is portable being detached from the mobile device and the portable device, comprising:

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a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

a connecting unit configured to connect the portable information processor to either one of the mobile device and the portable device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the mobile device and the portable device; (Col 3, lines 57-60; Col 4, lines 51-68)

a generating unit configured to be supplied with a driving power from a power source of the mobile device and the portable device, and to generate operation information indicative of an operation executed by the mobile device and the portable device based on device identification information and other information that are acquired by the acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit configured to control one of the mobile device and the portable device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) wherein

the mobile device includes a first display unit, (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

the portable device includes a second display unit, (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

While this does not encompass all claimed limitations, the disclosure of Kohli discloses the following:

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the mobile device includes a first position detecting unit configured to detect a position of the mobile device; (Abs, All figures, Col 1 – End; Note the embodiment of Kohli pertains nearly specifically to position detection) and

the portable device includes a second position detecting unit configured to detect a position of the portable device; (Abs, All figures, Col 1 – End; Note the embodiment of Kohli pertains nearly specifically to position detection) and

the storage unit stores at least map information, (Col 4, lines 10-23; Col 5, lines 45-49)

when the portable information processor is connected to the mobile device, the acquiring unit acquires device identification information of the mobile device from the mobile device (Col 2, lines 14-24) and first position information on a position of the mobile device detected by the first position detecting unit, (Abs, All figures, Col 1 – End; Note the embodiment of Kohli pertains nearly specifically to position detection)

the generating unit generates first navigation information for the mobile unit based on the map information, (Col 6, lines 19-44) the device identification information of the mobile device, (as shown above) and the first position information, (Col 6, lines 19-44) and

the control unit causes the first display unit to display a navigation screen for the mobile unit based on the first navigation information, (Col 7, lines 8-17)

when the portable information processor is connected to the portable device, the acquiring unit acquires the device identification information of the portable device from the portable device (Col 2, lines 14-24) and second position information on a position of

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the portable device detected by the second position detection unit, (Abs, All figures, Col 1 – End; Note the embodiment of Kohli pertains nearly specifically to position detection) the generating unit generates second navigation information for the portable device based on the map information, (Col 6, lines 19-44) the device identification information of the portable device, (as shown above) and the second position information, (Col 6, lines 19-44) and

the control unit causes the second display unit to display a navigation screen for the portable device based on the second navigation information. (Col 7, lines 8-17) While the implementation of Kohli does not provide specific indoor and outdoor displays, as shown above and additionally within the disclosure of Moroconi, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide specific displays better catered to the conditions they will be viewed under in addition to providing better and more numerous input methods for route planning.

Regarding claim 37, Moriconi does not specifically disclose the claimed limitations, however Kohli discloses the devices further include an indoor device installed indoors, (as made obvious by the disclosure of Moriconi as shown above)

the indoor device includes an input unit through which command information is input by the user, (Col 6, lines 19-44)

when the portable information processor is connected to the indoor device, the acquiring unit acquires the device identification information of the indoor device from the indoor device and route setting command from the input unit, (Col 6, lines 19-44)

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the generating unit generates first route guidance information for the mobile device to perform a route guiding and second route guidance information for the portable device to perform route guiding based on the map information, (Col 6, lines 19-44) the device identification information of the indoor device, (as shown above) and the route setting command, (Col 6, lines 19-44) and

the storage unit stores the first route guidance information and the second route guidance information, (Col 4, lines 10-23; Col 5, lines 45-49)

when the portable information processor is connected to the mobile device, the generating unit generates the first navigation information based on the map information, (Col 6, lines 19-44) the device identification information of the mobile device, (as shown above) the first position information, (Col 6, lines 19-44) and the first route guidance information, (Col 6, lines 19-44)

when the portable information processor is connected to the portable device, the generating unit generates the second navigation information based on the map information, the device identification information of the portable device, the second position information, and the second route guidance information.(similarly as above.

Note the routes are reprogramable at any time)

Regarding claim 38, Moriconi discloses a portable information processor that is attachable and detachable to a plurality of devices including a mobile device installed in a mobile unit and an indoor device installed indoors, and that is portable being detached from the devices, comprising:

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a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

a connecting unit configured to connect the portable information processor to either one of the mobile device and the indoor device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the mobile device and the portable device; (Col 3, lines 57-60; Col 4, lines 51-68)

a generating unit configured to be supplied with a driving power from a power source of the mobile device and the indoor device, and to generate operation information indicative of an operation executed by the mobile device and the indoor device based on device identification information and other information that are acquired by the acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit configured to control one of the mobile device and the indoor device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) wherein when the portable information processor is connected to the mobile device, the acquiring unit acquires the device identification information of the mobile device from the mobile device, (Col 2, lines 14-24)

when portable information processor is connected to the indoor device, the acquiring unit acquires the device identification information of the indoor device from the indoor device, (Col 2, lines 14-24)

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While this does not encompass all claimed limitations, the disclosure of Kohli discloses the following:

the mobile device includes a first sound output unit, (Col 5, lines 39 – 44 Note it would have been obvious to one of ordinary skill in the art at the time of the invention to interface with existing infrastructure such as car audio speakers)

the indoor device includes an second sound output unit, (Col 5, lines 39 – 44 Note it would have been obvious to one of ordinary skill in the art at the time of the invention to interface with existing infrastructure such as pc speakers)

the storage unit stores sound information, first environment information indicating reproduction environment of the mobile device and second environment information indicating reproduction environment of the indoor device, (Col 5, lines 39 – 44. Note the data must be stored)

the generating unit generates first audio information for the mobile unit based on the sound information, the first environment information, and the device identification information of the mobile device, (Col 5, lines 39 – 44; Col 6, lines 19-44) and the control unit causes the first sound output unit to output sound based on the first audio information, (Col 5, lines 39 – 44)

the generating unit generates second audio information based on the sound information, the second environment information, and the device identification information of the indoor device, (Col 5, lines 39 – 44; Col 6, lines 19-44) and the control unit causes the second sound output unit to output sound based on the second audio information. (Col 5, lines 39 – 44) While the implementation of Kohli does

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not provide specific indoor and outdoor displays, as shown above and additionally within the disclosure of Moroconi, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide specific displays better catered to the conditions they will be viewed under in addition to providing better and more numerous input methods for route planning.

Regarding claim 39, Moriconi does not specifically disclose the claimed limitations, however Kohli discloses the indoor device further includes an input unit through which command information is input by a user, (Col 6, lines 19 - 44)

when portable information processor is connected to the indoor device, the acquiring unit acquires environment renewal command from the input unit, (as above, note position detection constantly renews to update navigation information)

the generating unit generates environment renewal information to renew any one of the first environment information and the second environment information based on the environment renewal command, (as above, note position detection constantly renews to update navigation information) and

the storage unit renews any one of the first environment information and the second environment based on the environment renewal information. (as above, note position detection constantly renews to update navigation information)



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Regarding claim 40, Moriconi does not specifically disclose the claimed limitations, however Kohli discloses the indoor device further includes an input unit through which command information is input by a user; (Col 6, lines 19 - 44) and a communication unit that communicates information with an information source when the portable information processor is connected to the indoor device, (Col 5, lines 45-49)

the acquiring unit acquires sound renewal command from the input unit, (Col 6, lines 19-44; Col 5, lines 39-44)

the generating unit generates request information to request sound renewal information based on the sound renewal command, (Col 6, lines 19-44; Col 5, lines 39-44) and the control unit causes the communication unit to acquire the sound renewal information based on the request information. (Col 6, lines 19-44; Col 5, lines 39-44)

Regarding claim 41, Moriconi, nor Kohli specifically disclose the claimed limitations, however updates to computer systems are common and standard in the art at the time of the invention and it would have been obvious to one of ordinary skill in the art at the time of the invention to acquire sound renewal information, renew the stored sound information based on the sound renewal information, and generates the first audio information based on the sound information renewed in order to produce an updated voice or sound navigation data for the system.

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Regarding claim 42, Moriconi discloses a portable information processor that is attachable and detachable to a plurality of devices including a portable device portably carried by a user and an indoor device-installed indoors, and that is portable being detached from the devices, comprising:

a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

a connecting unit configured to connect the portable information processor to either one of the portable device and the indoor device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the portable device and the indoor device; (Col 3, lines 57-60; Col 4, lines 51-68)

a generating unit configured to be supplied with a driving power from a power source of the portable device and the indoor device, and to generate operation information indicative of an operation executed by the portable device and the indoor device, based on device identification information and other information that are acquired by the acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit configured to control one of the portable device and the indoor device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68)

when the portable information processor is connected to the portable device, the acquiring unit acquires the device identification information of the portable device from the portable device, (Col 2, lines 14-24)

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when the portable information processor is connected to the indoor device, the acquiring unit acquires the device identification information of the indoor device from the indoor device, (Col 2, lines 14-24)

While this does not encompass all claimed limitations, the disclosure of Kohli discloses the following:

the portable device includes a first sound output unit, (Col 5, lines 39 – 44 Note it would have been obvious to one of ordinary skill in the art at the time of the invention to interface with existing infrastructure such as car audio speakers)

the indoor device includes an second sound output unit, (Col 5, lines 39 – 44 Note it would have been obvious to one of ordinary skill in the art at the time of the invention to interface with existing infrastructure such as pc speakers)

the storage unit stores sound information, first environment information indicating reproduction environment of the portable device, and second environment information indicating reproduction environment of the indoor device, (Col 5, lines 39 – 44. Note the data must be stored)

the generating unit generates first audio information based on the sound information, the first environment information, and the device identification information of the portable device, (Col 5, lines 39 – 44; Col 6, lines 19-44) and

the control unit causes the first sound output unit to output sound based on the first audio information, (Col 5, lines 39 – 44)

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the generating unit generates second audio information based on the sound information, the second environment information, and the device identification information of the indoor device, (Col 5, lines 39 – 44; Col 6, lines 19-44) and the control unit causes the second sound output unit to output sound based on the second audio information. (Col 5, lines 39 – 44) While the implementation of Kohli does not provide specific indoor and outdoor displays, as shown above and additionally within the disclosure of Moroconi, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide specific displays better catered to the conditions they will be viewed under in addition to providing better and more numerous input methods for route planning.

Regarding claim 43, Moriconi discloses a portable information processor that is attachable and detachable to a plurality of devices including a mobile device installed in a mobile unit and a portable device portably carried by a user, and that is portable being detached from the devices, comprising:

a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

a connecting unit configured to connect the portable information processor to either one of the mobile device and the portable device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the mobile device and the portable device; (Col 3, lines 57-60; Col 4, lines 51-68)

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a generating unit configured to be supplied with a driving power from a power source of the mobile device and the portable device, and to generate operation information indicative of an operation executed by the mobile device and the portable device based on device identification information and other information that are acquired by the acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit configured to control one of the mobile device and the portable device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) wherein when the portable information processor is connected to the mobile device, the acquiring unit acquires the device identification information of the mobile device from the mobile device, (Col 2, lines 14-24)

when the portable information processor is connected to the portable device, the acquiring unit acquires the device identification information of the portable device from the portable device, (Col 2, lines 14-24)

While this does not encompass all claimed limitations, the disclosure of Kohli discloses the following:

the mobile device includes a first sound output unit, (Col 5, lines 39 – 44 Note it would have been obvious to one of ordinary skill in the art at the time of the invention to interface with existing infrastructure such as car audio speakers)

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the portable device includes a second sound output unit, (Col 5, lines 39 – 44 Note it would have been obvious to one of ordinary skill in the art at the time of the invention to interface with existing infrastructure such as pc speakers)

the storage unit stores sound information, first environment information indicating reproduction environment of the mobile device, and second environment information indicating reproduction environment of the portable device, (Col 5, lines 39 – 44. Note the data must be stored)

the generating unit generates first audio information based on the sound information, the first-environment information, and the device identification information of the mobile device, (Col 5, lines 39 – 44; Col 6, lines 19-44) and

the control unit causes the first sound output unit to output sound based on the first audio information, (Col 5, lines 39 – 44)

the generating unit generates second audio information based on the sound information, the second environment information, and the device identification information of the portable device, (Col 5, lines 39 – 44; Col 6, lines 19-44) and

the control unit causes the second sound output unit to output sound based on the second audio information. (Col 5, lines 39 – 44) While the implementation of Kohli does not provide specific indoor and outdoor displays, as shown above and additionally within the disclosure of Moroconi, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide specific displays better catered to the conditions they will be viewed under in addition to providing better and more numerous input methods for route planning.

Regarding claim 44, Moriconi discloses a portable information processor that is attachable and detachable to a plurality of devices including a mobile device installed in a mobile unit and an indoor device installed indoors, and that is portable being detached from the devices, comprising:

a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

a connecting unit configured to connect the portable information processor to either one of the mobile device and the indoor device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the mobile device and the portable device; (Col 3, lines 57-60; Col 4, lines 51-68)

a generating unit configured to be supplied with a driving power from a power source of the mobile device and the indoor device, and to generate operation information indicative of an operation executed by the mobile device and the indoor device based on device identification information and other information that are acquired by the acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit configured to control one of the mobile device and the indoor device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) wherein

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when the portable information processor is connected to the mobile device, the acquiring unit acquires the device identification information of the mobile device from the mobile device, (Col 2, lines 14-24)

when the portable information processor is connected to the indoor device, the acquiring unit acquires the device identification information of the indoor device from the indoor device (Col 2, lines 14-24) and the command information from the input unit,

While this does not encompass all claimed limitations, the disclosure of Kohli discloses the following:

the mobile device includes a first sound output unit, (Col 5, lines 39 – 44 Note it would have been obvious to one of ordinary skill in the art at the time of the invention to interface with existing infrastructure such as car audio speakers)

the indoor device includes an input unit through which command information is input by a user; (Col 6, lines 19-44) and

a communication unit that communicates information with an information source, (Col 5, lines 45-49)

the storage unit stores at least sound information, (Col 5, lines 39-44)

the generating unit generates first audio information based on the sound information and the device identification information of the mobile device, (Col 5, lines 39 – 44; Col 6, lines 19-44) and

the control unit causes the first sound output unit to output sound based on the first audio information, (Col 5, lines 39 – 44)



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the generating unit generates request predetermined information for first audio information based on the device identification information of the mobile device and the command information, (Col 6, lines 19-44; Col 5, lines 45-49) and the control unit causes the communication unit to acquire the predetermined information from the information source based the request information. (Col 6, lines 19-44; Col 5, lines 45-49) While the implementation of Kohli does not provide specific indoor and outdoor displays, as shown above and additionally within the disclosure of Moroconi, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide specific displays better catered to the conditions they will be viewed under in addition to providing better and more numerous input methods for route planning.

Regarding claim 45 Moriconi does not specifically disclose the claimed limitations, however Kohli discloses when the portable information processor is connected to the indoor device,

the acquiring unit acquires the predetermined information, (Col 6, lines 19-44; Col 5, lines 45-49) and

the storage unit renews the information stored in the storage unit based on the predetermined information. (Col 6, lines 19-44; Col 5, lines 45-49)

Regarding claim 46, claim 46 is rejected for substantially the same reason as 41 above. Note that the updated sound would "edit" the stored sound data within the gps system.

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Regarding claim 47 Moriconi discloses a portable information processor that is attachable and detachable to a plurality of devices including a portable device portably carried by a user and an indoor device installed indoors, and that is portable being detached from the devices, comprising:

a storage unit configured to store information; (Col 1, line 56 - Col 2, line 3)

a connecting unit configured to connect the portable information processor to either one of the portable device and the indoor device; (Fig 2; 3a; 3b; 3c; 4; 5; Abs; Col 1, line 56 - Col 2, line 12; Col 2, line 30 - Col 5, line 66)

an acquiring unit configured to acquire information from the portable device and the indoor device; (Col 3, lines 57-60; Col 4, lines 51-68)

a generating unit configured to be supplied with a driving power from a power source of the portable device and the indoor device, and to generate operation information indicative of an operation executed by the portable device and the indoor device, based on device identification information and other information that are acquired by the acquiring unit, and on the information stored in the storage unit; (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) and

a control unit configured to control one of the portable device and the indoor device that is connected to the portable information processor, based on the operation information, (Col 1, line 56 - Col 2, line 3; Col 3, lines 57 - 60; Col 4, lines 51-68) wherein when the portable information processor is connected to the portable device, the acquiring unit acquires the device identification information of the portable device from the portable device, (Col 2, lines 14-24)

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While this does not encompass all claimed limitations, the disclosure of Kohli discloses the following:

the portable device includes a first sound output unit, (Col 5, lines 39 – 44 Note it would have been obvious to one of ordinary skill in the art at the time of the invention to interface with existing infrastructure such as car audio speakers)

the indoor device includes an input unit through which command information is input by the user; (Col 6, lines 19-44) and

a communication unit that communicates information with an information source, (Col 5, lines 45-49)

the storage unit stores at least sound information and content information indicating a content of the sound information, (Col 5, lines 39-44; Note it would have been obvious to one of ordinary skill in the art to label content of sound in order for the system to know what file is being accessed)

the generating unit generates first audio information based on the sound information and the device identification information of the portable device, (Col 5, lines 39 – 44; Col 6, lines 19-44) and

the control unit causes the first sound output unit to output sound based on the first audio information, (Col 5, lines 39 – 44)

when the portable information processor is connected to the indoor device, the acquiring unit acquires the device identification information of the indoor device from the

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indoor device (as above) and the command information from the input unit, (Col 6, lines 19-44)

the generating unit generates request information for the first audio information based on the device identification information of the indoor device and the command information, (Col 6, lines 19-44; Col 5, lines 45-49) and

the control unit causes the communication unit to acquire predetermined information from the information source based the request information. (Col 6, lines 19-44; Col 5, lines 45-49) While the implementation of Kohli does not provide specific indoor and outdoor displays, as shown above and additionally within the disclosure of Moroconi, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide specific displays better catered to the conditions they will be viewed under in addition to providing better and more numerous input methods for route planning.

### ***Conclusion***

5. The prior art made of reference in this office action is as follows:

c. Moriconi et al. (US 5,262,759)

d. Kohli et al. (US 6,041,280)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRUCE A. WITZENBURG whose telephone number is (571)270-1908. The examiner can normally be reached on M-F 9:00 - 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bruce A Witzenburg/  
Examiner, Art Unit 2166

/Etienne P LeRoux/  
Primary Examiner, Art Unit 2161